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BOX NEW PATENT APPLICATION
Assistant Commissioner for Patents
Washington, D.C. 20231

Attorney Docket No.: KID-01201

NEW APPLICATION TRANSMITTAL

Sir:

Transmitted herewith for filing is the patent application of Inventor Gary Levenberg et al

Title: PLAYTOP TOYS

CERTIFICATION UNDER 37 CFR § 1.10

I hereby certify that this New Application and the documents referred to as enclosed herein are being deposited with the United States Postal Service on this date, , in an envelope bearing "Express Mail Post Office To Addressee" Mailing Label Number EL629109266US addressed to: **PATENT APPLICATION**, Assistant Commissioner for Patents, Washington, D.C. 20231.

Tadas Naraukas
(Name of Person Mailing Paper)

Tadas Namaskevicius
Signature

Enclosed are:

1. The papers required for filing date under CFR § 1.53(b):
- | | | | |
|-----------|--|-----------|-----------------------|
| <u>19</u> | Pages of Specification (including claims); | <u>12</u> | Sheet(s) of Drawings. |
| | | <u>X</u> | Formal |
| | | <u> </u> | Informal |
| <u>X</u> | Declaration or Oath (combined with Power of Attorney) unexecuted | | |
| <u>X</u> | Power of Attorney (combined with Declaration) unexecuted | | |
| | Assignment of the Invention to Kid Interactive, LLC (including Form PTO-1595). | | |

Fee Calculation

Amendment changing number of claims or deleting multiple dependencies is enclosed.

CLAIMS AS FILED

	Number Filed	Number Extra	Rate	Basic Fee
				\$710.00
Total Claims	21 - 20 =	1	\$18.00	18.00
Independent Claims	3 - 3 =	0	\$80.00	0.00
Multiple Dependent claim(s), if any			\$270.00	
Filing Fee Calculation				\$728.00

- | | | | | |
|-----|----------|--|--|-----------------|
| 6. | <u>X</u> | Verified Statement (Declaration) Claiming Small Entity Status (unexecuted) | 50% Filing Fee Reduction (if applicable) | \$364.00 |
| 7. | | Other Fees | | |
| | <u>—</u> | Assignment Recordation Fee | | |
| | <u>—</u> | Other | | 0.00 |
| | | | TOTAL FEES ENCLOSED | \$364.00 |
| 8. | | Payment of Fees | | |
| | <u>—</u> | Check in the amount of <u>\$364.00</u> enclosed. | | |
| 9. | <u>X</u> | Authorization to Charge Additional Fees | | |
| | | The Commissioner is hereby authorized to charge any additional fees (or credit any overpayment) associated with this communication and which may be required under 37 CFR § 1.16 or § 1.17 to Account No. <u>08-1275</u> . <u>An originally executed duplicate of this transmittal is enclosed for this purpose.</u> | | |
| 10. | <u>—</u> | Information Disclosure Statement | | |
| 11. | <u>X</u> | Return Receipt Postcard | | |

Dated: October 10, 2000

By: Thomas B. Haverstock
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PATENT

Attorney Docket No.: KID-01201

Applicant Or Patentee: Gary Levenberg et al.
 Serial or Patent No.:
 Filed or Issued: herewith
 Entitled: PLAYTOP TOYS

**VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY
 STATUS (37 CFR § 1.9(e)) - SMALL BUSINESS CONCERN**

I hereby declare that I am

 X an owner of the small business concern identified below:
 an official of the small business concern empowered to act on behalf of the concern identified below:

Name of Concern: **KID Interactive, LLC**
 Address of Concern: **58 Second Street, 5th Floor**
San Francisco, CA 94105

I hereby declare that the above-identified small business concern qualifies as a small business concern as defined in 13 CFR §§ 121.3-18, and reproduced in 37 CFR § 1.9(d), for purposes of paying reduced fees under Sections 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention entitled **PLAYTOP TOYS** by inventor(s) Gary Levenberg et al. as described in:

 X the specification filed herewith
 Application Serial No. , filed
 Patent No. , issued

If the rights held by the above-identified small business concern are not exclusive, each individual, concern or organization having rights to the invention is listed below* and no rights to the invention are held by any person, other than the inventor, who could not qualify as a small business concern under 37 CFR § 1.9(d) or by any concern which would not qualify as a small business concern under 37 CFR § 1.9(d) or a nonprofit organization under 37 CFR § 1.9(e).

*NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR § 1.27).

Full Name: _____
 Address: _____
 [] Individual [] Small Business Concern [] Nonprofit Organization

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR § 1.28(b)).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Name of Person Signing: _____

Title in Organization: _____

Address of Person Signing: 58 Second Street, 5th Floor, San Francisco, CA 94105

Dated: _____ Signature: _____

09266US-01201

PATENT
KID-01201**INTERACTIVE VIDEO GAME CONTROLLER ADAPTER**RELATED APPLICATIONS:

This application claims priority under 35 U.S.C. § 119(e) of the co-pending U.S.
5 provisional application Serial Number 60/158,288 filed on October 8, 1999 and entitled "Playtop
Toys."

FIELD OF THE INVENTION:

The present invention relates to an interactive video game controller adapter. More
10 particularly, the present invention relates to an interactive video game controller adapter designed
to be attached to a video game controller whereby manipulation of input controls of the adapter
simulates onscreen activity of a video game and activates corresponding control buttons of the
controller.

BACKGROUND OF THE INVENTION:

15 Video game systems have become an increasingly popular form of home entertainment.
A hand held controller is a commonly used video game system input device. Most controllers
include a directional control such as a D-pad (four button directional pad) or a joystick, along
with several control buttons for controlling onscreen activity of the video game. Conventional
20 controllers vary in design but can be used with a wide variety of video games. Some controllers
have been specifically designed for a certain type of video game. For example, steering wheel
controllers are available for car racing video games. Products for enhancing existing controllers
are available which provide better grip or convert a D-pad to a joystick.

The large selection of different video games available for any given video game system is
25 typically controlled by the same controller. Utilizing the same directional control and control

buttons to manipulate onscreen activity for different video games does not enhance video game interactivity. For example, a pistol shooting video game requires a user to depress a button on the controller to fire the pistol rather than having the user actually squeeze a trigger of a pistol mounted on the controller. A controller having unique physical characteristics resembling the onscreen activity of the corresponding video game would enhance video game interactivity. However, consumers may be reluctant to purchase a different controller for each video game due to cost and storage requirements. Hence, a mechanism for adapting a single video game controller to simulate the real-life activity depicted by the corresponding video game is desired.

SUMMARY OF THE INVENTION:

A video game system in accordance with one aspect of the present invention includes an output screen, a video game controller, video game software, and an interactive video game controller adapter. The video game controller has control buttons for inputting commands to manipulate images output to the screen. The video game software interfaces between the video game controller and the screen. The interactive video game controller adapter is attached to the video game controller and is shaped to represent the unique characteristics of a particular video game. The adapter has input controls shaped to simulate the real-life activity emulated by the video game. The appropriate control buttons of the video game controller are activated when the corresponding input controls of the adapter are activated.

A video game input device in accordance with another aspect of the present invention includes a video game controller and an interactive video game controller adapter. The video game controller has control buttons for inputting commands to manipulate images output to a screen. The interactive video game controller adapter is attached to the video game controller and is shaped to represent the unique characteristics of a particular video game. The adapter has input controls shaped to simulate the real-life activity emulated by the video game. The

appropriate control buttons of the video game controller are activated when the corresponding input controls of the adapter are activated.

An interactive video game controller adapter in accordance with another aspect of the invention attaches to a video game controller. The interactive video game controller adapter is shaped to represent the unique characteristics of a particular video game. The adapter has input controls shaped to simulate the real-life activity emulated by the video game. Control buttons of the video game controller are activated when the corresponding input controls of the adapter are activated.

BRIEF DESCRIPTION OF THE DRAWINGS:

Figure 1a illustrates a perspective view of a video game controller and an interactive video game controller adapter in accordance with a first embodiment of the present invention.

Figure 1b is an alternate view of Figure 1a.

Figure 2a illustrates an assembled view of Figure 1a.

Figure 2b illustrates an onscreen image manipulated by the interactive video game controller adapter of the present invention.

Figure 2c is an alternate view of Figure 2b.

Figure 3 illustrates a perspective view of a video game controller assembled with an interactive video game controller adapter in accordance with a second embodiment of the present invention.

Figure 4 illustrates a perspective view of a video game controller assembled with an interactive video game controller adapter in accordance with a third embodiment of the present invention.

Figure 5 illustrates a perspective view of a video game controller assembled with an interactive video game controller adapter in accordance with a fourth embodiment of the present

invention.

Figure 6 illustrates a perspective view of a video game controller assembled with an interactive video game controller adapter in accordance with a fifth embodiment of the present invention.

5 Figure 7 illustrates a perspective view of a video game controller assembled with an interactive video game controller adapter in accordance with a sixth embodiment of the present invention.

10 Figure 8 illustrates a perspective view of a video game controller assembled with an interactive video game controller adapter in accordance with a seventh embodiment of the present invention.

Figure 9 illustrates a perspective view of a video game controller assembled with an interactive video game controller adapter in accordance with an eighth embodiment of the present invention.

15 Figure 10 illustrates a perspective view of a video game controller assembled with an interactive video game controller adapter in accordance with a ninth embodiment of the present invention.

Figure 11 illustrates a perspective view of a video game controller assembled with an interactive video game controller adapter in accordance with a tenth embodiment of the present invention.

20 Figure 12 illustrates a perspective view of a video game controller assembled with an interactive video game controller adapter in accordance with an eleventh embodiment of the present invention.

25 Figure13 illustrates a perspective view of a video game controller assembled with an interactive video game controller adapter in accordance with a twelfth embodiment of the present invention.

Figure14 illustrates a perspective view of a video game controller assembled with an interactive video game controller adapter in accordance with a thirteenth embodiment of the present invention.

Figure 15 illustrates a perspective view of a video game controller assembled with an interactive video game controller adapter in accordance with a fourteenth embodiment of the present invention.

Figure16 illustrates a perspective view of a video game controller assembled with an interactive video game controller adapter in accordance with a fifteenth embodiment of the present invention.

Figure17 illustrates a perspective view of a video game controller assembled with an interactive video game controller adapter in accordance with a sixteenth embodiment of the present invention.

Figure18 illustrates a perspective view of a video game controller assembled with an interactive video game controller adapter in accordance with a seventeenth embodiment of the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS:

Referring to Figures 1a and 1b, video game system of the present invention includes an output screen (not shown), video game software (not shown), a video game controller 2 and an interactive video game controller adapter 4. The controller 2 and the adapter 4 in accordance with a first embodiment of the present invention are shown. The controller 2 shown is used with a Sony Playstation™ video game system but those of ordinary skill in the art understand that the adapter 4 of the present invention can be modified to accommodate other video game controllers such as those used with Sega or Nintendo video game systems. The controller 2 comprises a main body 6, first and second circular base plates 8, 9 spaced from each other a predetermined

distance on a top face 10 of the main body 6, a D-pad directional control 12 positioned on the first base plate 8, and four first control buttons 14 positioned on the second base plate 9. The directional control 12 includes four second control buttons 16. Two projections 18 are formed on a rear face 20 of the main body 6. Two third control buttons 22 are positioned on a rear face of each projection 18. A pair of fourth control buttons 24 project from the top face 10 of the main body 6 between the base plates 8, 9. A pair of push buttons 26 extend from the top face 10 of the main body 6 proximate the fourth control buttons 24 and a front face of the main body 6. A pair of handgrips 28 projects from opposite ends of the main body 6. A power cord 30 extends from the rear face 22 of the main body 6 and electrically connects the controller 2 to the remainder of the video game system.

The adapter 4 of the first embodiment comprises a main body 32 having first and second arms 34, 35 extending from opposite sides of the main body 32. A lip 36 projects from a front portion 42 of the main body 32 between the first and second arms 34, 35. Two control pads 38 are formed on the lip 36. An arcuate cutout 40 is defined in each arm 34, 35 corresponding to the related base plate 8, 9 of the controller 2. A receiving space 44 is formed within the main body 32 and is exposed to the front portion 42. A rotatable knob 46 outwardly extends from the first arm 34. A first rod 48 inwardly extends from the knob 46 into the receiving space 44. A first end portion 50 perpendicularly extends from the first rod 48. A retractable handle 52 outwardly extends from the second arm 35. A second rod 54 inwardly extends from the handle 52 into the receiving space 44. A second end portion 56 perpendicularly extends from the second rod 54.

Referring to Figure 2a, the adapter 4 is attached to the controller 2 by positioning the lip 36 of the adapter 4 between the base plates 8, 9 of the controller 2. The base plates 8, 9 and the projections 18 of the controller 2 are received in the receiving space 44 of the adapter 4. The control pads 38 of the adapter 4 are aligned with the fourth control buttons 24 of the controller 2. Thus, when a user depresses the control pads 38 of the adapter 4 the fourth control buttons 24 of

the controller 2 are activated and an input signal is sent to the video game software. The end portions 50, 56 of the rods 48, 54 of the adapter 4 are positioned proximate the corresponding third control buttons 22 of the controller 2. Manipulation of the knob 46 and handle 52 causes the end portions 50, 56 of the rods 48, 54 to activate the corresponding third control buttons 22 of the controller 2 whereby more input signals are sent to the video software causing an onscreen image to move accordingly.

The video game software is designed to interface between the controller 2 with the attached adapter 4 and the video game system in order to facilitate a unique physical interaction between a user and onscreen activity of the video game. The adapter 4 of the first embodiment is used with a video game having an onscreen animated character 58 as shown in Figures 2b and 2c. The main body 32 of the adapter 4 corresponds to a head 60 of the character 58. The first and second arms 34, 35 of the adapter 4 correspond to left and right arms 62, 63 of the character 58, respectively. Pulling the handle 52 away from the main body 32 of the adapter 4 in the direction indicated by the arrow causes the character 58 to pull an onscreen object such as a bar 64. The arrow shows the direction of movement of the bar 64. Rotating the knob 46 in the direction indicated by the arrow causes the character 58 to spin an onscreen object such as a propeller 66. The arrow also indicates this direction of movement. Thus, input controls of the adapter 4 which activate the appropriate control buttons 22, 24 of the controller 2 include the knob 46, the handle 52, and the control pads 38. The directional movement of the onscreen character 58 is controlled by the directional control 12 and the push buttons 26 of the controller 2. The unique physical features of the adapter 4 allow a user to interactively manipulate onscreen activity by providing a realistic simulation of the character's 58 movement.

An adapter 70 in accordance with a second embodiment of the present invention is shown in Figure 3. The adapter 70 is used with software for a video game based on the popular television game show "Jeopardy!". In accordance with the rules of the game, players are given

an answer and the first player to provide the correct question earns points. Three answer buttons 72, each corresponding to a player, are formed on a top face of the adapter 70. When an answer button 72 is depressed, one of the corresponding control buttons 14, 16, 22 on the controller 2 is activated. The software determines the first player to depress her answer button 72 and outputs this information to the screen. The first player to depress her answer button 72 uses the joysticks 26 to scroll through the answers. The player selects an answer using the fourth control buttons 24 and before attempting to provide the correct question. The adapter 70 of the second embodiment allows three players to participate in the game while using only one controller 2.

In Figure 4, an adapter 80 in accordance with a third embodiment of the present invention is shown. The adapter is used with a video game based on the Nickelodeon® television cartoon, Catdog. Catdog is an animated character having a cat's head 82 at one end of a body 84 and a dog's head 86 at an opposite end. A figure resembling Catdog is formed on a top face of the adapter 80. Each head 82, 86 is movable and can be pulled, twisted, or stretched. Control pads 88 aligned with the fourth control buttons 24 of the controller 2 are formed on the body 84. By manipulating the heads 82, 86 and the control pads 88 of the adapter 80 along with one of the first control buttons 14 and the push buttons 26 of the controller 2, a user becomes interactively involved with the onscreen activity of Catdog.

An adapter 90 in accordance with a fourth embodiment of the present invention and used with a video game based on the Stretch Armstrong action figure is shown in Figure 5. The adapter 90 comprises two retractable arms 92 outwardly extending from opposite ends of a main body 94 and a head 96 formed on a top portion of the main body 94. The head 96 and arms 92 correspond to a head and arms of an onscreen image of Stretch Armstrong. The head 96 and arms 92 are manipulated by a user to activate the appropriate control buttons 14, 16, 22, 24 of the controller 2 causing the onscreen image to move accordingly. The push buttons 26 of the controller 2 are activated to navigate the onscreen image of Stretch Armstrong through the course

of the video game. A similar adapter 100 in accordance with a fifth embodiment of the present invention is shown in Figure 6. The adapter 100 is used with a video game based on the WCW professional wrestling organization. Rotatable arms 102 and a retractable head 104 are manipulated to activate the appropriate control buttons 14, 16, 22, 24 of the controller 2 and dictate the movements of an onscreen image of a professional wrestler.

Figure 7 shows an adapter 110 in accordance with a sixth embodiment of the present invention to be used with a video basketball game. A raised portion 112 of a top face of the adapter 110 forms the shape of a basketball net. Control pads 114 project from a rear face of the adapter 110. The control pad 114 proximate the raised portion 112 is shaped like a basketball. The control pads 114 of the adapter 110 and the push buttons 26 of the controller 2 activate the control buttons 14, 16, 22, 24 of the controller 2 to regulate the movements of an onscreen basketball player. A similar adapter 120 in accordance with a seventh embodiment of the present invention is shown in Figure 8. The adapter 120 is used with a video football game. The adapter 120 includes control pads 122 shaped like a football grip formed along rear and side faces thereof. A scoring button 124 is positioned on a central portion of the rear face of the adapter 120. The scoring button 124 resembles the touchdown area of a football field. A user induces the movements of an onscreen football player by manipulating the joysticks 28 of the controller 2 and by depressing the control pads 122 and the scoring button 124 of the adapter 120 to activate the corresponding control buttons 14, 16, 22, 24 of the controller 2.

An eighth embodiment of the adapter 130 of present invention as shown in Figure 9 is used with a skateboarding video game. A finger-grippable model of a skateboard 132 is mounted on a top face of the adapter 130. A user depresses the skateboard 132 with her fingers to activate the directional control 12 and the push buttons 26 of the controller 2 to guide an onscreen image of a skateboarder along a desired course. Control pads 134 formed on the adapter 130 corresponding to the control buttons 14, 16, 22, 24 of the controller 2 allow a player to perform

onscreen skateboard stunts.

An adapter 140 in accordance with a ninth embodiment of the present invention, as shown in Figure 10, is used with a video game called "Splat Pumper". A pump gun 142 with a retractable handle 144 is mounted on a top face of the adapter 140 and resembles an onscreen
5 splat pumper. Sliding the handle 144 away from or toward the pump gun 142 activates the appropriate control buttons 14, 16, 22, 24 of the controller 2 to load or project a liquid substance depicted onscreen. The greater the pressure applied to the pump gun 142 of the adapter 140 the larger the resulting discharge from the onscreen pump. The "splat" direction is selected by manipulating one of the push buttons 26 of the controller 2.

Figure 11 shows an adapter 150 in accordance with a tenth embodiment of the present invention for use with a video pinball game. A plunger 152 is pulled to enter an onscreen ball into play. A pair of flipper buttons 154 activate the corresponding control buttons 14, 16, 22, 24 of the controller 2 to drive onscreen flippers. The fifth control buttons 26 of the controller 2 activate tilt action. The configuration of the adapter 150 resembles the controls of a conventional
10 arcade pinball machine including the ability to tilt or slam.

An adapter 160 in accordance with an eleventh embodiment of the present invention is shown in Figure 12. The adapter 160 is used with a fishing video game. A rod 162 and a reel 164 mounted on a top face of the adapter 160 activate the appropriate control buttons 16, 22, 24 of the controller 2 to cast a line in a desired onscreen direction and to reel the line in when
15 necessary. The first control buttons 14 and the push buttons 26 of the controller 2 allow a user to position an onscreen boat at a desired location in accordance with the rules of the video game. Such a configuration of the adapter 160 facilitates fishing simulation by modeling the physical action of reeling in a fish or some other object attached to the line.

Figure 13 shows an adapter 170 in accordance with a twelfth embodiment of the present invention for use with a Nickelodeon® Toon World video game. Manipulation of a flexible
20

hand 172 projecting from a top face of the adapter 170 allows a player to throw onscreen slime by activating the corresponding control buttons 14, 16, 22 of the controller 2. A toon lever 174 for selecting different options associated with the game extends from the top face of the adapter 170 proximate an end thereof. A crank 176 mounted on the top face of the adapter 170 at an opposite end thereof allows a user to capture onscreen objects. The push buttons 26 of the controller 2 allow a user to navigate an onscreen character along a desired course.

An adapter 180 in accordance with a thirteenth embodiment of the present invention, as shown in Figure 14, is used with an automobile racing video game. A steering wheel 182 activates the corresponding control buttons 14, 16, 22 of the controller 2 to guide an onscreen automobile along a race course. A gas pedal 184, a brake pedal 186, and a gear shift 188 are matched with other corresponding control buttons 14, 16, 22 of the controller 2 to simulate automobile racing.

An adapter 190 in accordance with a fourteenth embodiment of the present invention is used with a fire rescue video game. The adapter 190 is shown in Figure 15. A steering wheel 192 mounted on a top face of the adapter 190 activates the corresponding control buttons 14, 16, 22, 24 and the joysticks 28 of the controller 2 to guide an onscreen fire truck along its course. A winch 194 mounted on a side of the adapter 190 allows a user to control the height of onscreen ladders. A water lever 196 mounted on an opposite side of the adapter 190 provides the user with control over the flow of water from onscreen hoses. A siren 198 is provided on the top face of the adapter 190 to further enhance video game interaction.

Referring to Figure 16, an adapter 200 in accordance with a fifteenth embodiment of the present invention is used with a bumper car video game. A steering wheel 202 mounted on a top surface of the adapter 200 activates the appropriate control buttons 14, 16, 22, 24 of the controller 2 to guide an onscreen bumper car along its course. A pair of bumper pads 204 extending from opposite ends of the adapter 200 allow a user to bump an opposing player when

the onscreen cars of the two players come into contact.

A guitar-shaped adapter 210 in accordance with a sixteenth embodiment of the present invention is shown in Figure 17. The adapter 210 is used with software for activating a video guitar. A user can create music by plucking strings 212 of the adapter 210 which drive the
5 corresponding control buttons 14, 16, 22, 24 of the controller 2. Music is output from a speaker of the video game system. A whammy bar 214 and a tone control knob 216 formed on a top face of the adapter 210 allow a user to further manipulate the sound of the video guitar much like a real electric guitar.

Figure 18 shows an adapter 220 in accordance with a seventeenth embodiment of the
10 present invention for use with a night vision video game. By looking through a pair of lenses 222 mounted on a top face of the adapter 220 a user can detect onscreen objects obscured by darkness. A disc 224 with different colored windows 226 is positioned within the lenses 222 and allows a user to change the color of the line of vision thereby revealing secret messages and
15 other players on the screen. The push buttons 26 of the controller 2 allow a user to navigate through different screens. Control pads 228 formed on the top face of the adapter 220 correspond to the appropriate control buttons 14, 16, 22 of the controller 2.

The above description of the interactive video game controller adapter in accordance with the present invention discloses a device for enhancing a video game controller to accommodate
20 related video game software with specialized controls. Such a configuration facilitates simulation of the real-life activity emulated by the video game. The interactive video game controller adapter of the present invention allows a single video game controller to be transformed to accommodate the related video game software which heretofore has never been accomplished. Thus, the interactive video game controller adapter in accordance with the present invention is novel and unobvious and should be granted a patent on the merits.

25 The present invention has been described in terms of specific embodiments incorporating

details to facilitate the understanding of the principles of construction and operation of the invention. Such reference herein to specific embodiments and details thereof is not intended to limit the scope of the claims appended hereto. It will be apparent to those skilled in the art that modifications can be made to the embodiments chosen for illustration without departing from the spirit and scope of the invention. Specifically, it will be apparent to one of ordinary skill in the art that the adapter of the present invention could be implemented in several different ways and the architecture, system and method disclosed above are only illustrative of preferred embodiments of the invention.

CLAIMS

We Claim:

1. A video game system including:
 - an output screen;
 - a video game controller having control buttons for inputting commands to manipulate images on the output screen;
 - video game software interfacing between the video game controller and the output screen;
 - and
 - an interactive video game controller adapter engaged with the video game controller and shaped to simulate the real-life activity emulated by the video game.
2. The video game system as claimed in Claim 1, wherein the adapter has input controls shaped to simulate the real-life activity emulated by the video game.
3. The video game system as claimed in Claim 2, wherein the control buttons of the video game controller are activated when the corresponding input controls of the adapter are activated.
4. The video game system as claimed in Claim 1, wherein a different adapter is provided for each different video game of the video game system.
5. A video game input device including:
 - a video game controller having control buttons for inputting commands to manipulate video game images on an output screen of a video game system; and

an interactive video game controller adapter engaged with the video game controller and shaped to simulate the real-life activity emulated by the video game.

6. The video game input device as claimed in Claim 5, wherein the adapter has input controls shaped to simulate the real-life activity emulated by the video game.

7. The video game input device as claimed in Claim 6, wherein the control buttons of the controller are activated when the corresponding input controls of the adapter are activated.

8. The video game input device as claimed in Claim 5, wherein a different adapter is provided for each different video game of the video game system.

9. The video game input device as claimed in Claim 5, wherein the controller is used with a Sony Playstation™ video game system.

10. The video game input device as claimed in Claim 5, wherein the controller comprises a main body, a pair of circular base plates formed on a top face of the main body and spaced from each other a predetermined distance, and two projections formed on a rear face of the main body.

11. The video game input device as claimed in Claim 10, wherein the control buttons of the controller are formed on the base plates, the projections, and the top face of the main body of the controller.

12. The video game input device as claimed in Claim 10, wherein the controller comprises a pair of push buttons formed on the top face of the main body, a pair of handgrips formed on opposite ends of the main body, and a power cord extending from the rear face of the main body for electrically connecting the controller to the video game system.
13. The video game input device as claimed in Claim 10, wherein the adapter comprises a main body, two arms extending from the main body, a lip formed on a front portion of the main body for engaging with the controller between the base plates, a cutout defined in each arm for receiving the corresponding base plate of the controller, and a receiving space formed in the main body for receiving a portion of the controller.
14. The video game input device as claimed in Claim 13, wherein the adapter comprises a retractable handle outwardly extending from one of the two arms, a rotatable knob outwardly extending from the other of the two arms, a rod inwardly extending from each of the handle and the knob into the receiving space, and an end portion perpendicularly extending from each rod, each end portion being positioned proximate the control buttons formed on the corresponding projection of the controller whereby manipulation of the knob and handle causes the end portions to activate the corresponding control buttons.
15. The video game input device as claimed in Claim 14, wherein the adapter is used with a video game having an animated onscreen character, the main body of the adapter corresponding to a head of the character, the arms of the adapter corresponding to the arms of the character whereby pulling the handle away from the main body of the adapter causes the character to pull an onscreen object and rotating the knob causes the character to spin an onscreen object.

- 59 16. An interactive video game controller adapter for engaging with a video game controller
60 and shaped to represent the unique characteristics of a video game.
- 61 17. The interactive video game controller adapter as claimed in Claim 16, wherein the
62 adapter has input controls shaped to simulate the real-life activity emulated by the video
63 game.
- 64 18. The interactive video game controller adapter as claimed in Claim 17, wherein control
65 buttons of the controller are activated when the corresponding input controls of the
66 adapter are activated.
- 67 19. The interactive video game controller adapter as claimed in Claim 18 further comprising
68 a main body, two arms extending from the main body, a lip formed on a front portion of
69 the main body for engaging with the controller, a cutout defined in each arm for receiving
70 corresponding engaging portions of the controller, and a receiving space formed in the
71 main body for receiving a portion of the controller.
- 72 20. The interactive video game controller adapter as claimed in Claim 19 further comprising
73 a retractable handle outwardly extending from one of the two arms, a rotatable knob
74 outwardly extending from the other of the two arms, a rod inwardly extending from each
75 of the handle and the knob into the receiving space, and an end portion perpendicularly
76 extending from each rod, each end portion being positioned proximate the corresponding
77 control buttons of the controller whereby manipulation of the knob and handle causes the
78 end portions to activate the corresponding control buttons.

21. The interactive video game controller adapter as claimed in Claim 20, wherein the adapter is used with a video game having an animated onscreen character, the main body of the adapter corresponding to a head of the character, the arms of the adapter corresponding to the arms of the character whereby pulling the handle away from the main body of the adapter causes the character to pull an onscreen object and rotating the knob causes the character to spin an onscreen object.

ABSTRACT

A video game system includes an output screen, a video game controller, video game software, and an interactive video game controller adapter. The video game controller has control buttons for inputting commands to manipulate images output to the screen. The video game software interfaces between the video game controller and the screen. The interactive video game controller adapter is attached to the video game controller and is shaped to represent the unique characteristics of a particular video game. The adapter has input controls shaped to simulate the real-life activity emulated by the video game. The appropriate control buttons of the video game controller are activated when the corresponding input controls of the adapter are activated.

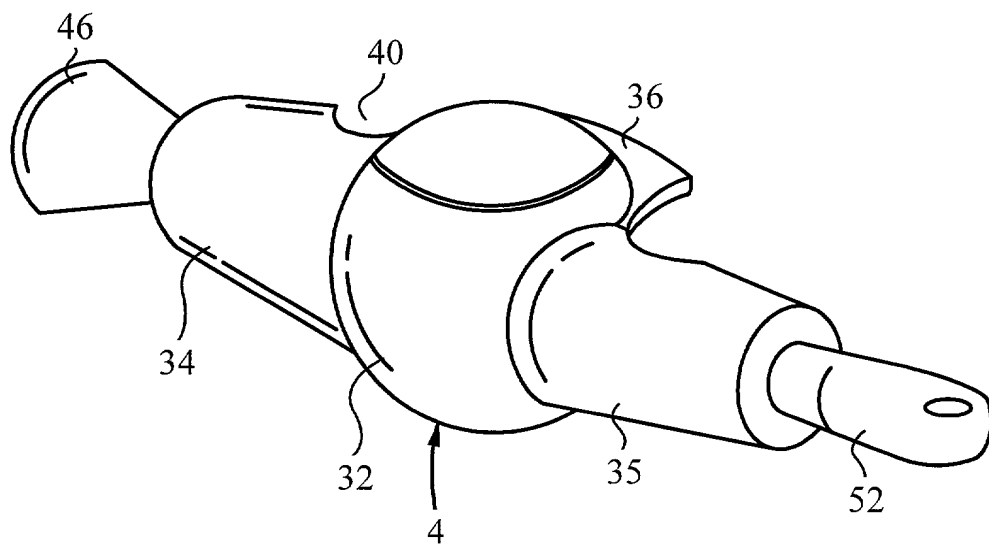
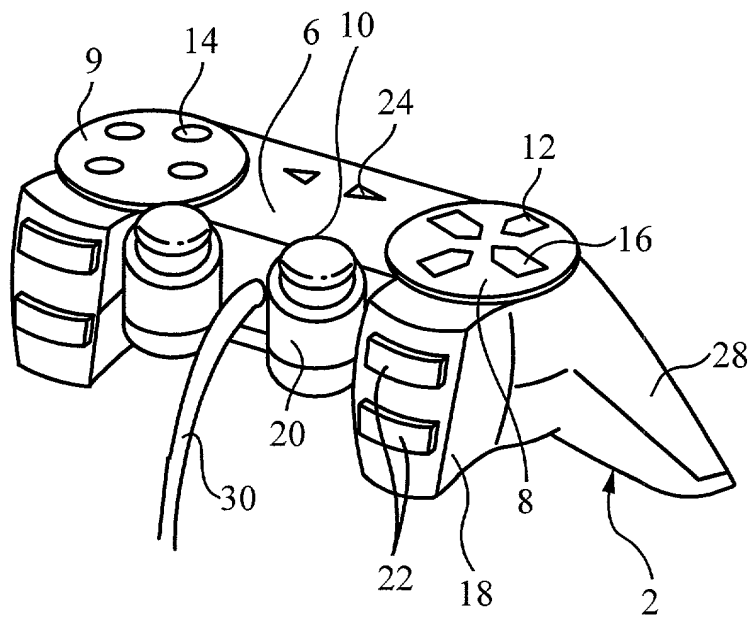


Fig. 1a

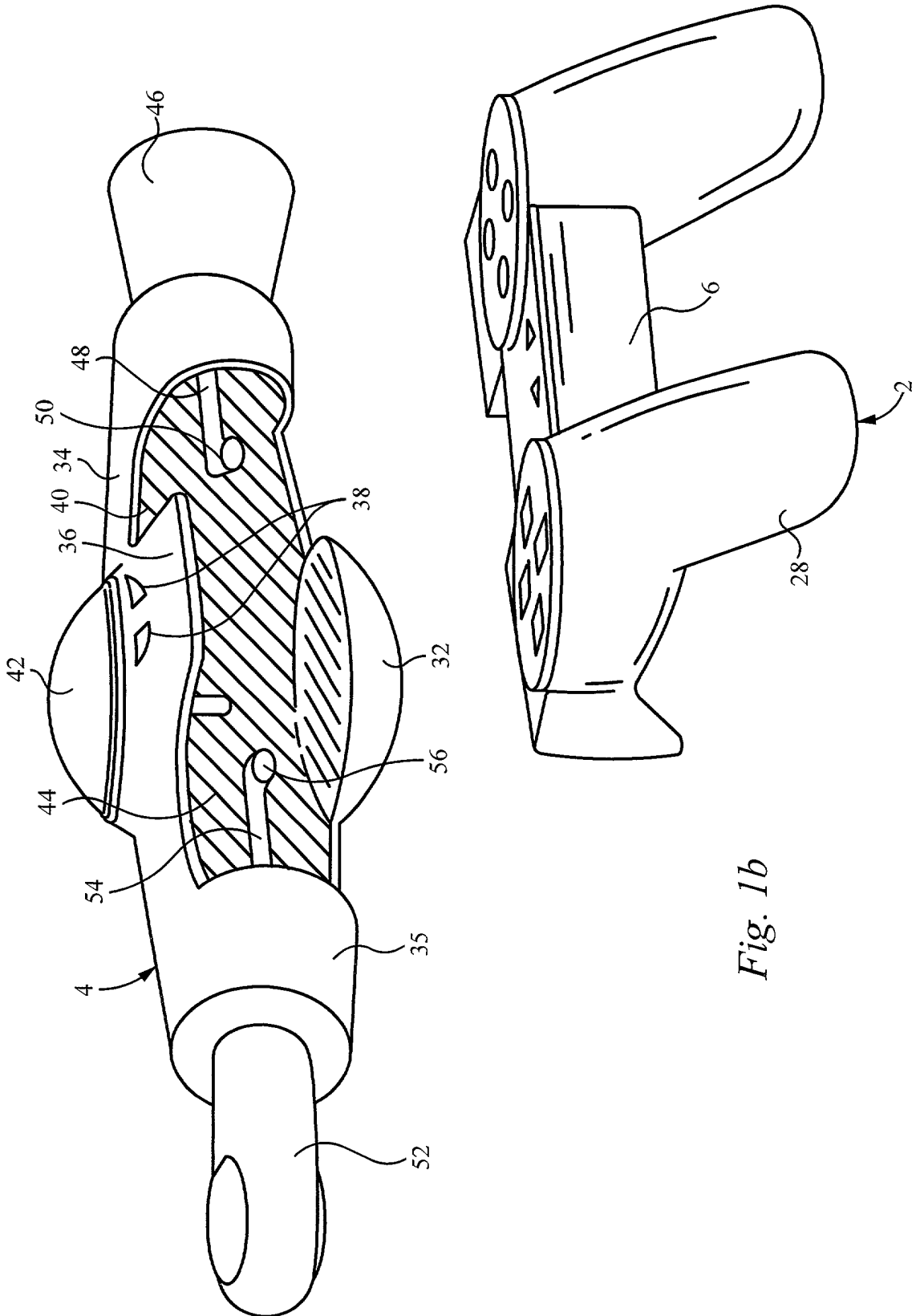
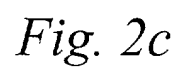
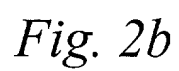
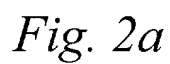
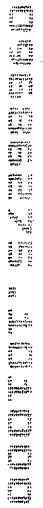
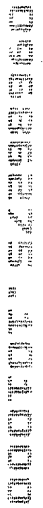
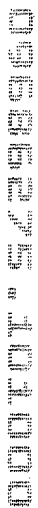


Fig. 1b



[illegible][illegible]



Parameter	Value	Unit
Temperature	25.0	°C
Pressure	1.013	bar
Humidity	65.0	%
Wind speed	0.5	m/s
Wind direction	180	°
Cloud cover	10	%
Relative humidity	65.0	%
Atmospheric pressure	1013.25	hPa
Sea level pressure	1013.25	hPa
Barometric pressure	1013.25	hPa
Altitude	0	m
Latitude	40.7128	°N
Longitude	-87.6298	°W
Time zone	UTC-5	
Daylight saving time	Not observed	
Local time	2023-10-27 14:30:00	
UTC time	2023-10-27 19:30:00	
Day of year	300	
Month	October	
Year	2023	
Season	Autumn	
Month length	31	days
Year length	365	days
Leap year	No	
Weekday	Monday	
Week number	43	
Quarter	4	
Century	21	
Time of day	14:30:00	
Time of year	299.5	hours
Time of day (UTC)	19:30:00	
Time of year (UTC)	299.5	hours
Time of day (local)	14:30:00	
Time of year (local)	299.5	hours
Time of day (GMT)	19:30:00	
Time of year (GMT)	299.5	hours
Time of day (CET)	15:30:00	
Time of year (CET)	299.5	hours
Time of day (CST)	14:30:00	
Time of year (CST)	299.5	hours
Time of day (EST)	15:30:00	
Time of year (EST)	299.5	hours
Time of day (PST)	14:30:00	
Time of year (PST)	299.5	hours
Time of day (MST)	15:30:00	
Time of year (MST)	299.5	hours
Time of day (AKST)	14:30:00	
Time of year (AKST)	299.5	hours
Time of day (HST)	13:30:00	
Time of year (HST)	299.5	hours
Time of day (AST)	14:30:00	
Time of year (AST)	299.5	hours
Time of day (WAST)	15:30:00	
Time of year (WAST)	299.5	hours
Time of day (CAT)	16:30:00	
Time of year (CAT)	299.5	hours
Time of day (EAT)	17:30:00	
Time of year (EAT)	299.5	hours
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Time of year (CET-1)	299.5	hours
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Time of year (CET+1)	299.5	hours
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Time of day (CET+2)	17:30:00	
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Time of year (CET+12)	299.5	hours
Time of day (CET-13)	02:30:00	
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Time of day (CET+13)	04:30:00	
Time of year (CET+13)	299.5	hours

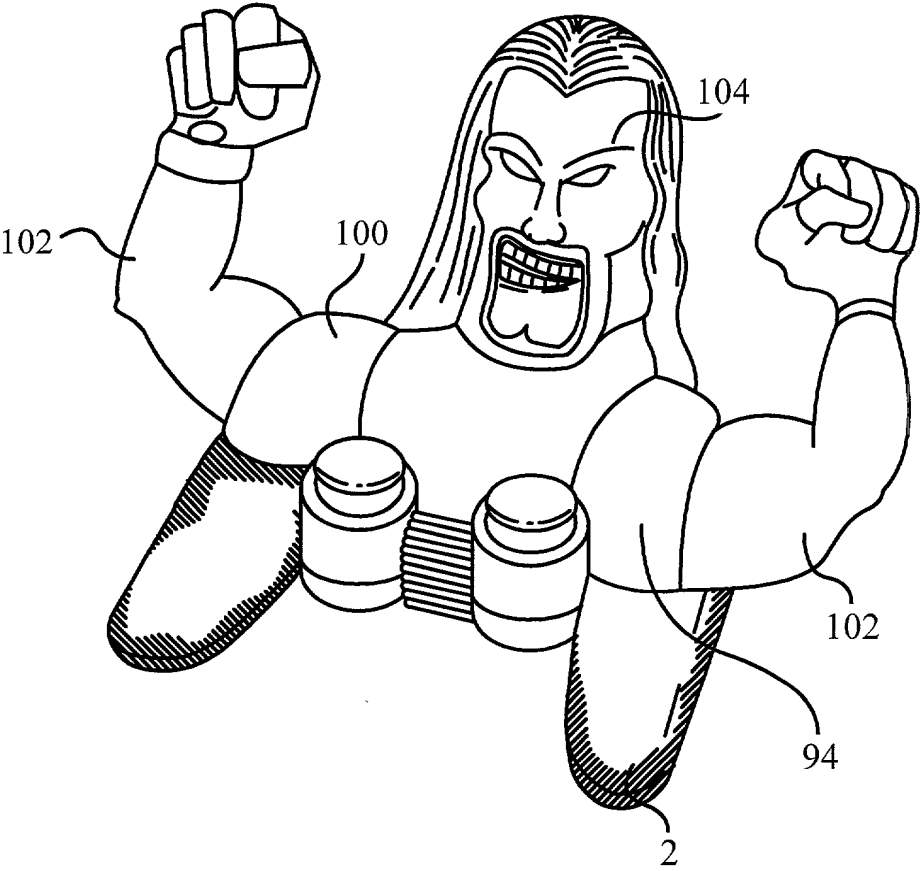
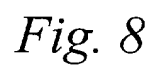
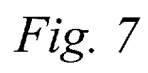
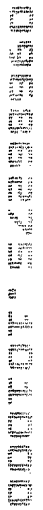
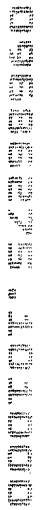


Fig. 6

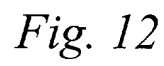
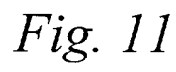




General Information		Chemical Analysis		Physical Properties		Thermal Analysis		Mechanical Properties		Electrical Properties		Optical Properties		Biological Properties	
Parameter	Value	Parameter	Value	Parameter	Value	Parameter	Value	Parameter	Value	Parameter	Value	Parameter	Value	Parameter	Value
Sample ID	12345	Elemental Analysis	C: 65.2%, H: 5.1%, N: 1.3%	Melting Point	150-155°C	Thermal Stability	200-250°C	Tensile Strength	10.5 MPa	Resistivity	1.2 × 10 ¹² Ω·cm	Refractive Index	1.52	Biocompatibility	ISO 10993-5
Batch No.	ABC-789	FTIR Spectrum	1715 (C=O), 1600 (C=C)	Glass Transition	120°C	Decomposition Temp	300°C	Elongation at Break	5.2%	Volume Resistivity	2.5 × 10 ¹⁴ Ω·cm	Dispersion	0.015	Cytotoxicity	None
Manufacturer	XYZ Corp.	NMR Data	7.2 ppm (NH)	Crystallinity	15%	Half-life	10 years	Modulus	1.8 GPa	Surface Resistivity	1.0 × 10 ¹¹ Ω	Absorbance	0.05	Genotoxicity	None
Application	Medical Device	Mass Spec	m/z 123.4	Thermal Conductivity	0.2 W/mK	Storage Life	5 years	Impact Strength	2.1 kJ/m ²	Dielectric Constant	3.5	Fluorescence	None	Mutagenicity	None
Storage Conditions	25°C, 60% RH	Calorimetry	ΔH: 10 kJ/mol	Thermal Expansion	1.5 × 10 ⁻⁵ /°C	Shipping Conditions	15-25°C	Compression Modulus	0.5 GPa	Dielectric Loss	0.001	Photostability	100 h	Immunogenicity	None
Regulatory Status	CE Marked	Stability Tests	1000 h	Thermal Shock	-55 to 125°C	Handling Precautions	Wear gloves	Flexural Strength	8.5 MPa	Dielectric Strength	10 kV/mm	UV Resistance	100 h	Anticancer Activity	None
Contact Info	123 Main St, City, State	Environmental Data	Biodegradable	Thermal Aging	1000 h	Disposal Instructions	Recycle	Shear Modulus	0.8 GPa	Dielectric Breakdown	15 kV/mm	IR Absorption	0.02	Antibiotic Resistance	None



General Information		Chemical Analysis		Physical Properties		Thermal Analysis		Mechanical Properties		Electrical Properties		Optical Properties		Biological Properties	
Parameter	Value	Parameter	Value	Parameter	Value	Parameter	Value	Parameter	Value	Parameter	Value	Parameter	Value	Parameter	Value
Sample ID	12345	Elemental Analysis	C: 65.2%, H: 5.1%, N: 1.3%	Melting Point	150-155°C	Thermal Stability	200-250°C	Tensile Strength	10.5 MPa	Resistivity	1.2 × 10 ¹² Ω·cm	Refractive Index	1.52	Biocompatibility	ISO 10993-5
Batch No.	ABC-789	FTIR Spectrum	1715 (C=O), 1600 (C=C)	Glass Transition	120°C	Decomposition Temp	300°C	Elongation at Break	5.2%	Volume Resistivity	2.5 × 10 ¹⁴ Ω·cm	Dispersion	0.015	Cytotoxicity	None
Manufacturer	XYZ Corp.	NMR Data	7.2 ppm (NH)	Crystallinity	15%	Half-life	10 years	Modulus	1.8 GPa	Surface Resistivity	1.0 × 10 ¹¹ Ω	Absorbance	0.05	Genotoxicity	None
Application	Medical Device	Mass Spec	m/z 123.4	Thermal Conductivity	0.2 W/mK	Storage Life	5 years	Impact Strength	2.1 kJ/m²	Dielectric Constant	3.5	Fluorescence	None	Mutagenicity	None
Storage Conditions	25°C, 60% RH	Calorimetry	ΔH: 100 J/mol	Thermal Expansion	10 ppm/K	Shipping Weight	1.5 kg	Compression Modulus	0.5 GPa	Dielectric Loss	0.001	Photostability	1000 h	Immunogenicity	None



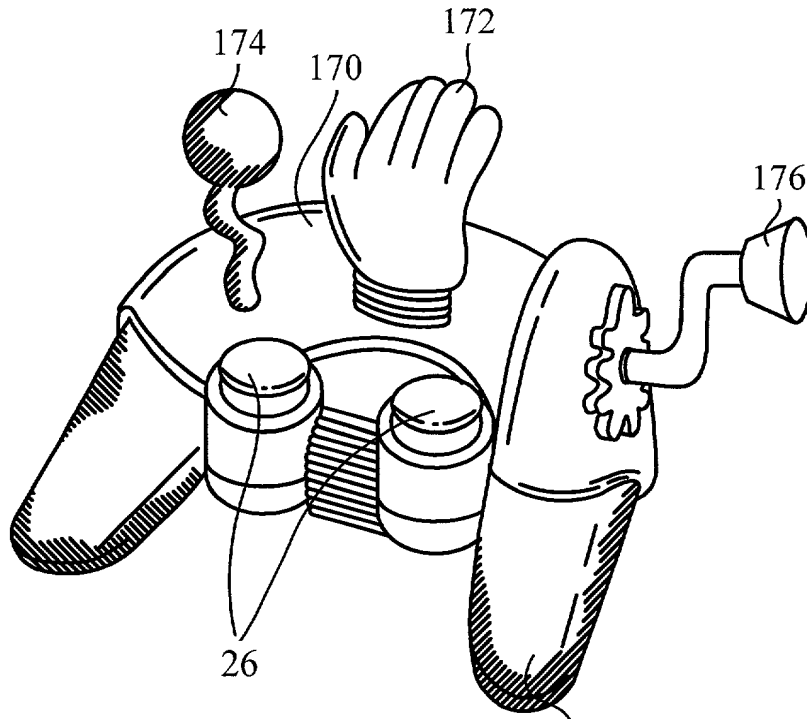


Fig. 13

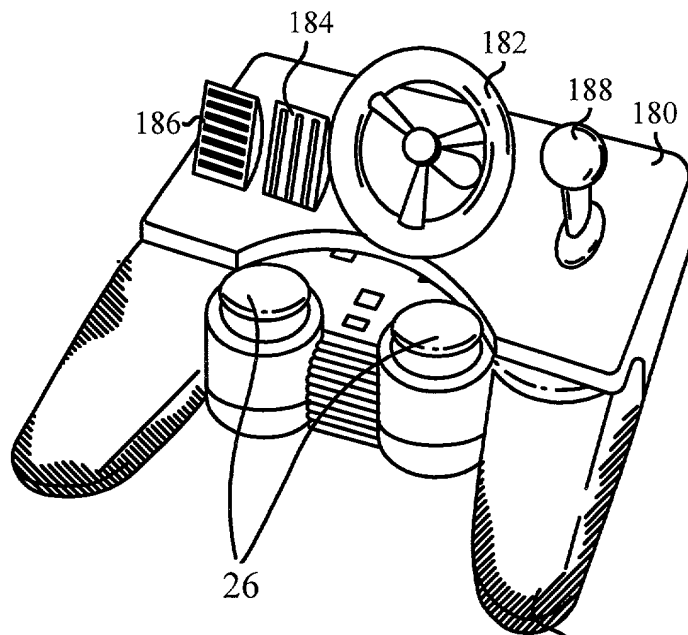


Fig. 14

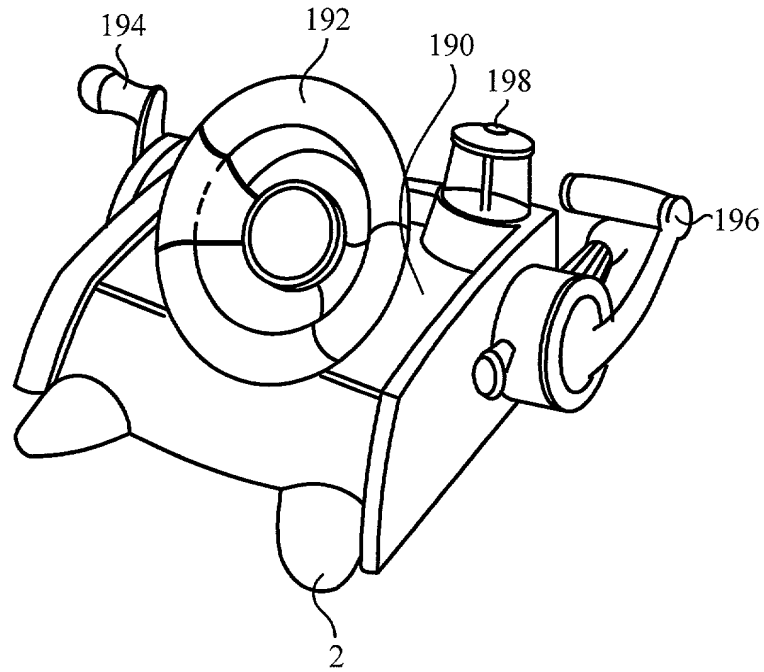


Fig. 15

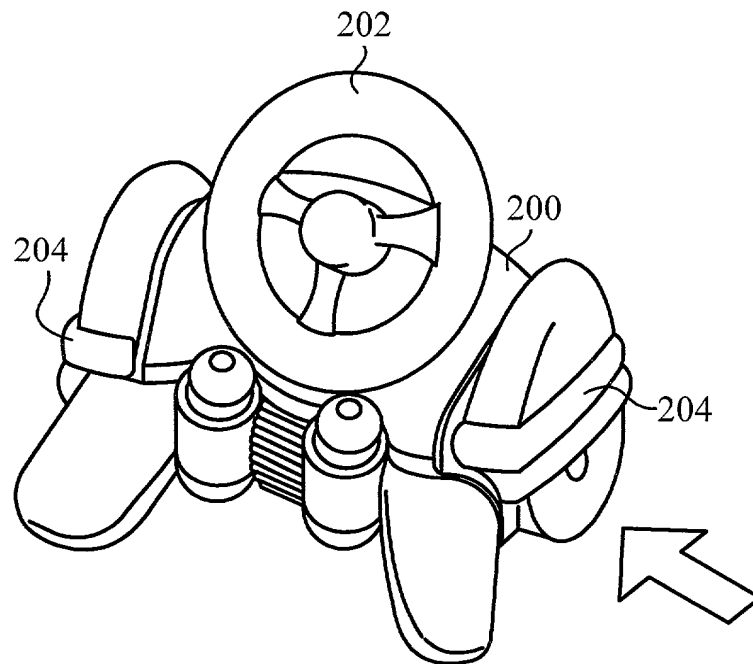


Fig. 16

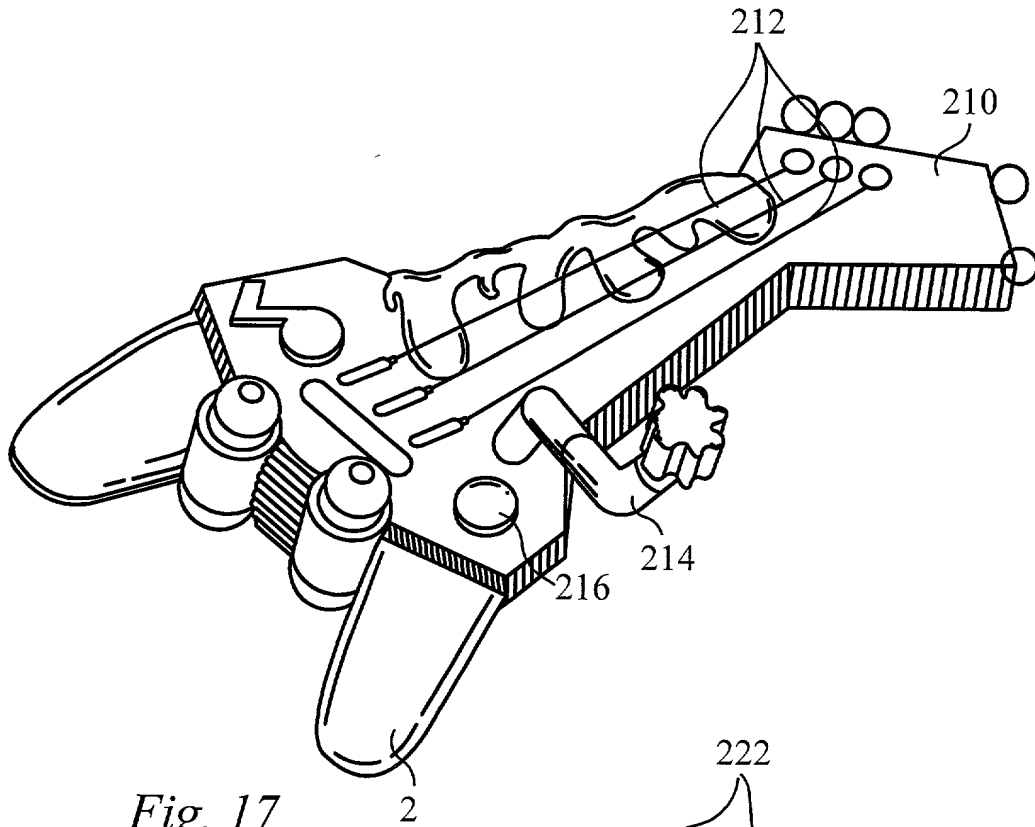


Fig. 17

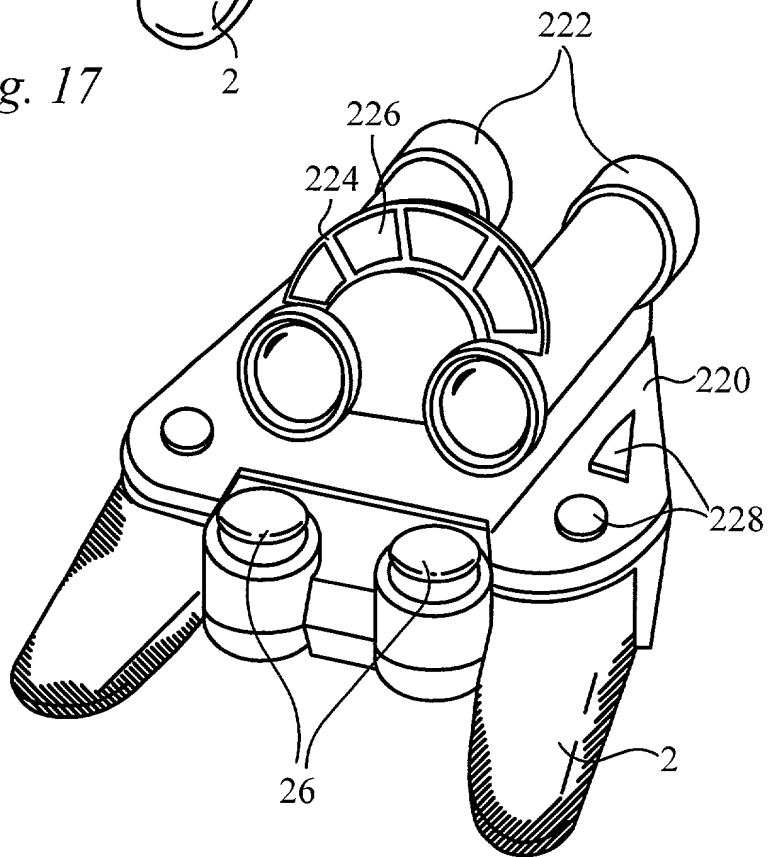


Fig. 18

COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name. I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: **PLAYTOP TOYS**. The specification of which is attached hereto I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)	Priority Claim	
	Yes	No
	<input type="checkbox"/>	<input type="checkbox"/>
Number	Country	Day/Month/Year Filed

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.	Filing Date	Status: Patented, Pending, Abandoned
------------------------	-------------	--------------------------------------

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

60/158,288	10/08/99
Application Serial No.	Filing Date

I hereby appoint the following as my attorneys with full power of substitution to prosecute this application and transact all business in the Patent and Trademark Office in connection therewith:

Thomas B. Haverstock	32,571	Jonathan O. Owens	37,902
----------------------	--------	-------------------	--------

Please direct all correspondence regarding this application to the following:

Thomas B. Haverstock
HAVERSTOCK & OWENS LLP
260 Sheridan Avenue, Suite 420
Palo Alto, California 94306

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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Inventor's Signature: _____ Date _____

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Full Name of Second Joint Inventor: Brian Clemens

Inventor's Signature: _____ Date _____

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Full Name of Third Joint Inventor: Dan Klitsner

Inventor's Signature: _____ Date _____

Residence: 441 Holcomb Street, Larkspur, California

Citizenship: United States of America

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